

What is claimed is:

1. A pulmonary drug delivery device comprising:

a hand piece electrically connected to a control unit;

5 a cartridge engagable with the hand piece, the cartridge comprising:

a drug reservoir,

a pump connected to the drug reservoir;

an electrically chargeable nozzle connected to the pump;

a discharge electrode; and

10 an information storage element;

wherein the control unit controls the pump and the electrical charge of the  
nozzle and discharge electrode in accordance with instructions stored within the  
information storage element.

15 2. The pulmonary drug delivery device of claim 1, the control unit comprising a  
cartridge reader.

3. The pulmonary drug delivery device of claim 1, wherein the information  
storage element is programmable.

20 4. The pulmonary drug delivery device of claim 1, wherein the information  
storage element also stores drug identification information.

5. The pulmonary drug delivery device of claim 1, wherein the information storage element also stores drug delivery protocol.

6. The pulmonary drug delivery device of claim 1, wherein the information storage element also stores the minimum time between dosages.

7. The pulmonary drug delivery device of claim 1, wherein the information storage element also stores dosage information.

8. The pulmonary drug delivery device of claim 1, wherein the information storage element also stores the expiration date for the drug.

9. The pulmonary drug delivery device of claim 1, wherein the information storage element also stores a unique cartridge identifier.

10. The pulmonary drug delivery device of claim 1, wherein the information storage element comprises an RF tag.

11. The pulmonary drug delivery device of claim 1, wherein the information storage element comprises a bar code.

12. The pulmonary drug delivery device of claim 1, wherein the information storage element comprises a magnetic strip.

13. The pulmonary drug delivery device of claim 1, wherein the information storage element comprises a memory chip.

5           14. A method of delivering a drug to a patient comprising the steps of:

              providing a pulmonary drug delivery device having a hand piece electrically connected to a control unit;

              providing a cartridge containing a drug in a drug reservoir, a pump connected to the reservoir, an electrically chargeable nozzle coupled to the pump, and a discharge

10       electrode, and an information storage element;

              engaging the cartridge with the hand piece;

              retrieving data stored in the information storage element using the control unit, the data including instructions for pumping the drug and charging the electrically chargeable nozzle and the discharge electrode; and

15       delivering the drug to the patient in accordance with the data stored in the information storage element.